



# ECSTRA by NEOPLAST™

REVOLUTIONARY WATERPROOF & DRYING SYSTEM



- **ECSTRA™** is a **100% Waterproof, Drying and Breathable System** for use in replacement of common plaster.
- **Water penetration  $\leq 1\text{mm}$**
- Benefit of Neoplast is the consolidation of plastering, waterproofing of construction walls into one single step, **SAVING BOTH TIME AND MONEY**
- **ADDED Benefit** is the 100% Breathability of the product.



# What is **ECSTRA™**?

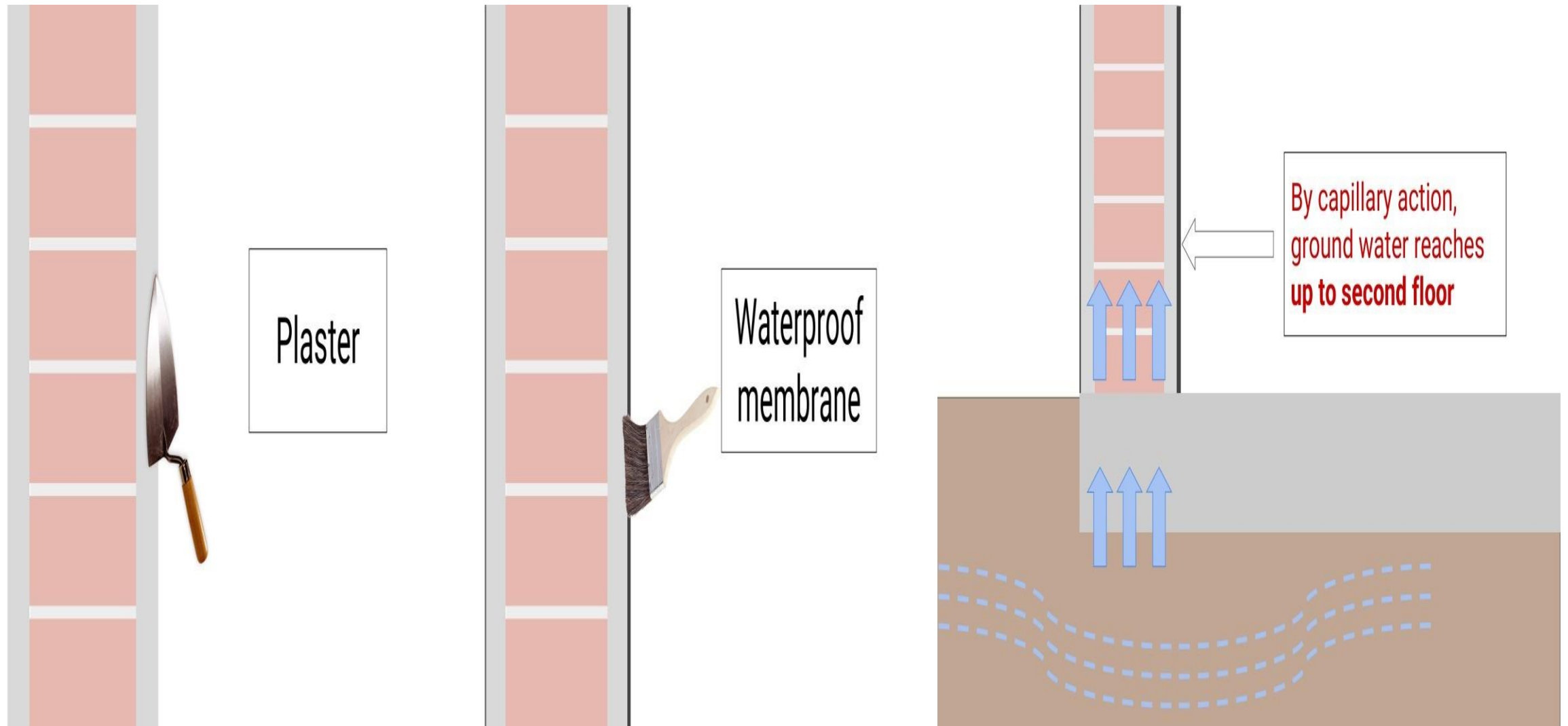
100% Waterproof, Drying & Breathable  
System



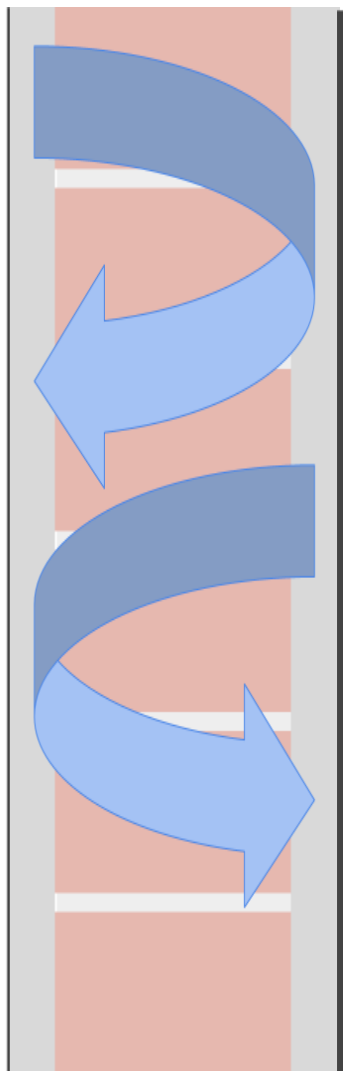
**FACT** – All Buildings in  
**ASIA** are considered  
**WET BUILDINGS**

Ground Moisture can reach up to 2-3<sup>rd</sup>  
Level through capillary action

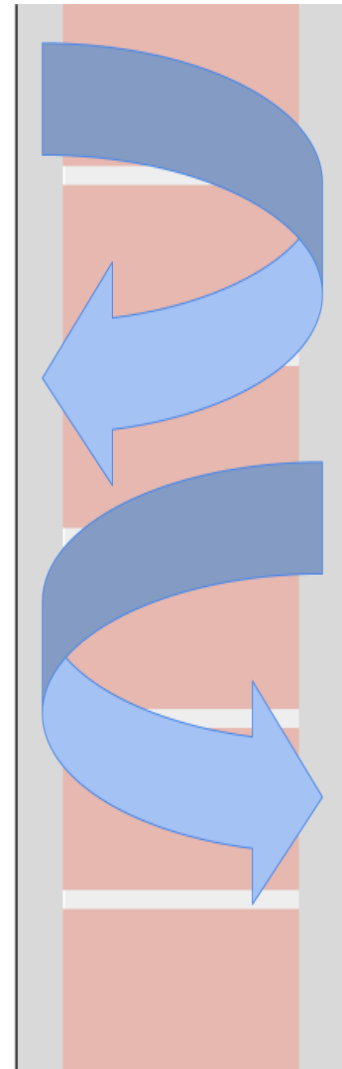
# HOW CHEMICAL WATERPROOFING MAY NOT BE THE RIGHT SOLUTION



# HOW CHEMICAL WATERPROOFING MAY NOT BE THE RIGHT SOLUTION



Waterproof membrane **closes moisture** inside the wall



Membrane is destroyed by process called **Saponification**



Trapped moisture **destroys membrane from negative side** by pushing membrane out of the wall



# Chemical Waterproof Membrane

AN OUTDATED TECHNOLOGY?



CHEMICAL WATERPROOFING AND WATERPROOFING ADDITIVES CAN ADD TO THE PROBLEMS BY TRAPPING GROUND MOISTURE IN SUBSTRATE CAUSING A PROCESS CALLED **SAPONIFICATION!**



# What is Saponification?

How it occurs?

Film forming coatings (membrane)	pH 7 – 7.5
Mineral surfaces (plaster, skim coat)	pH 11

Moisture in the substrate starts chemical reaction between the alkaline surface and a slightly acidic oil based coating (based on petrochemical additives).

Moisture carries alkalinity to the surface, just under the coating, causing chemical reaction known as **Saponification**.

Reaction results in the formation of a soap like substance which causes a decomposition of a paint's acrylic binder.

# How **ECSTRA™** Solves the Problem?

**ECSTRA™** has ability to constantly dry the moisture from the substrate. The Physical Principles of Waterproof & Drying System of **ECSTRA's** 100% drying system actively pulls out the moisture from damp substrate and transfers it on a molecular basis in the form of vapor through the layers of **ECSTRA** to outer environment.

EXTERIOR  
0°C

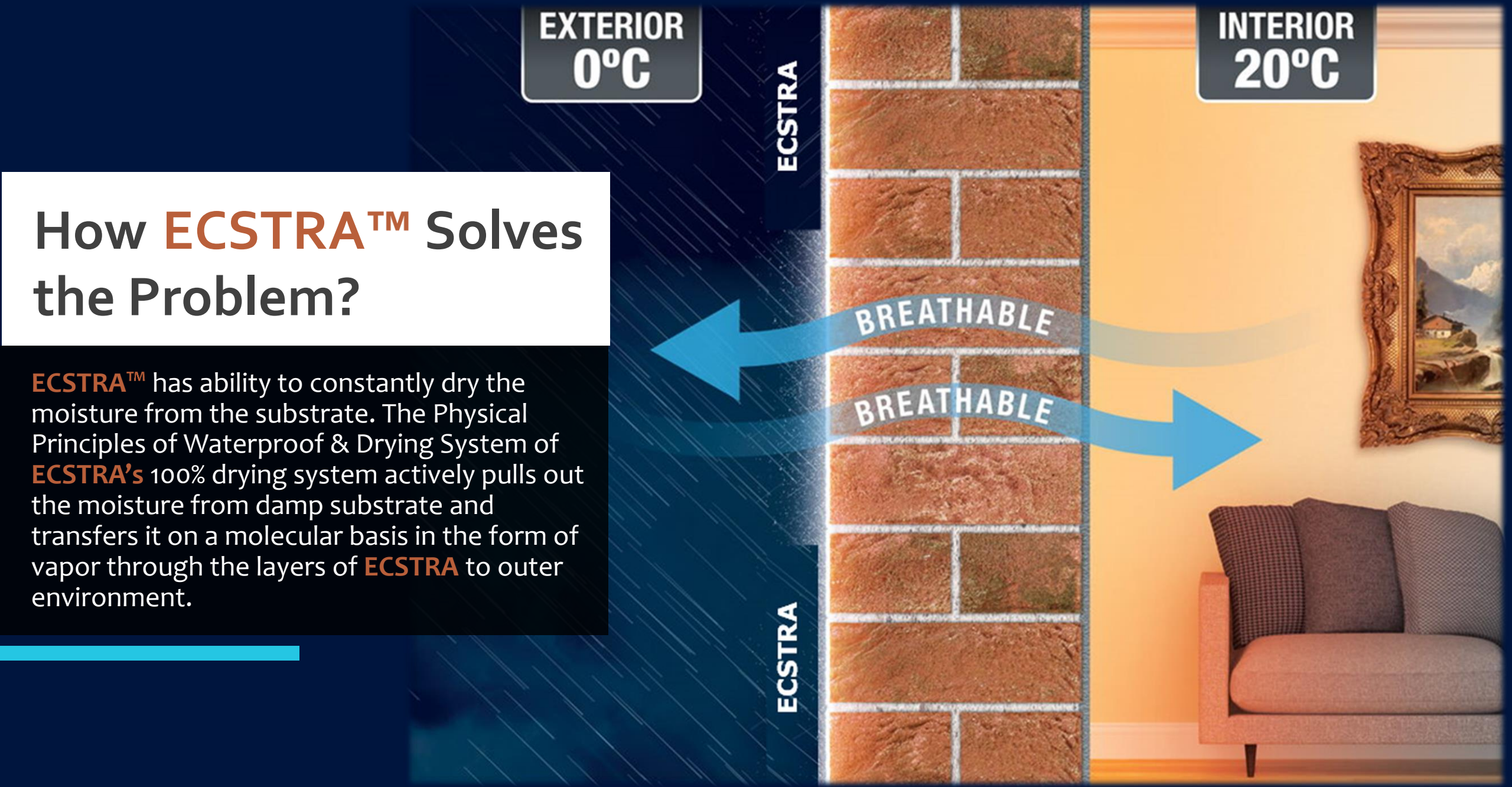
ECSTRA

BREATHABLE

BREATHABLE

ECSTRA

INTERIOR  
20°C



# Amazing Works of ECSTRA™

---

- 100% WATERPROOF
- 100% BREATHABLE
- WATER PENETRATION LESS THAN 1mm



A Revolutionary  
Waterproof & Drying System

# ECSTRA by NEOPLAST™

FRANKIE'S INN JOMTIEN



RENOVATION UNIT AT BLUE LAGOON HUA HIN



WIND CHIMES APT. - INDIA





# A mission to reduce carbon footprint

**INNOVATIVE CONSTRUCTION MATERIALS**

**Nikita Sirichawla**



**+66 83 819 6763**



**info@mercurytradeglobal.com**

